

Cumulative Contents

Review

- Prostaglandin endoperoxide synthase: structure and catalysis

W.L. Smith and L.J. Marnett (U.S.A.)

1

Regular Papers

- Metabolic conversion of six steroid hormones by human plasma high-density lipoprotein

D.E. Leszczynski and R.M. Schafer (U.S.A.)

18

- Retroconversion and Δ^4 desaturation of docosatraenoate (22:4($n-6$)) and docosapentaenoate (22:5($n-3$)) by human cells in culture

M.D. Rosenthal, M.C. Garcia, M.R. Jones and H. Sprecher (U.S.A.)

29

- C_{20} polyunsaturated fatty acids and phorbol myristate acetate enhance agonist-stimulated synthesis of 1-acyl-2-acetyl-*sn*-glycero-3-phosphocholine in vascular endothelial cells

M.C. Garcia, H.W. Mueller and M.D. Rosenthal (U.S.A.)

37

- Dietary fat saturation in rhesus monkeys affects LDL concentrations by modulating the independent production of LDL apolipoprotein B

P. Khosla and K.C. Hayes (U.S.A.)

46

- Shedding of human neuroblastoma gangliosides

R. Li and S. Ladisch (U.S.A.)

57

- Effect of fat pre-feeding on bile flow and composition in the rat

R. Knox, I. Stein, D. Levinson, P. Tso and C.M. Mansbach, II (U.S.A.)

65

- Localization and regulation of epidermal 3-hydroxy-3-methylglutaryl-coenzyme A reductase activity by barrier requirements

E. Proksch, P.M. Elias and K.R. Feingold (U.S.A.)

71

- Purification and characterization of rabbit platelet cytosolic phospholipase A_2

D.K. Kim, I. Kudo and K. Inoue (Japan)

80

- Catalytic properties of human platelet 12-lipoxygenase as compared with the enzymes of other origins

T. Hada, N. Ueda, Y. Takahashi and S. Yamamoto (Japan)

89

- Cholesterol stimulation of HDL binding to human endothelial cells EAhy 926 and skin fibroblasts: evidence for a mechanism independent of cellular metabolism

F. Bernini, S. Bellosa, A. Corsini, F.M. Maggi, R. Fumagalli and A.L. Catapano (Italy)

94

- Rapid kidney changes resulting from glycosphingolipid depletion by treatment with a glucosyltransferase inhibitor

G.S. Shukla, A. Shukla, J.-i. Inokuchi and N.S. Radin (U.S.A., Japan)

101

- Milk lipid digestion in the neonatal dog: the combined actions of gastric and bile salt stimulated lipases

S.J. Iverson, C.L. Kirk, M. Hamosh and J. Newsome (U.S.A.)

109

Review

- Prostaglandin endoperoxide synthase: regulation of enzyme expression

D.L. DeWitt (U.S.A.)

121

Regular Papers

- Butyrobetaine is equal to L-carnitine in elevating L-carnitine levels in rats

A. Sandor (Hungary)

135

- Distribution of apolipoprotein E between free and A-II complexed forms in very-low- and high-density lipoproteins: functional implications

I. Borghini, R.W. James, M.-C. Blatter and D. Pometta (Switzerland)

139

- Estradiol increases the secretion of hepatic lipase by rat hepatocyte cultures

N. Emmison, V.A. Zammit and L. Agius (U.K.)

147

- Metabolism of cholesterol, phosphatidylethanolamine and stearylamine analogues of G_{M1} ganglioside by rat glioma C6 cells

T. Pacuska and P.H. Fishman (U.S.A.)

153

- Identification, isolation and characterization of tetracosapolyenoic acids in lipids of marine coelenterates

M.V. Vysotskii and V.I. Svetashev (U.S.S.R.)

161

continued

- Cholate separates the catalytic and malonyl-CoA-binding components of carnitine palmitoyl-transferase from liver outer mitochondrial membranes
I. Ghadiminejad and D. Saggerson (U.K.) 166
- Regulation of chylomicron remnant uptake in the human hepatoma cell-line Hep G2. Role of the low-density lipoprotein receptor
Q. Chen, C.-H. Florén, Å. Nilsson and R. Infante (Sweden, France) 173
- Occurrence of ceramide digalactoside as the main glycosphingolipid in the marine sponge *Hali-chondria japonica*
A. Hayashi, Y. Nishimura and T. Matsubara (Japan) 179
- γ -Linolenic acid dietary supplementation can reverse the aging influence on rat liver microsome Δ^6 -desaturase activity
P.L. Biagi, A. Bordon, S. Hrelia, M. Celadon and D.F. Horrobin (Italy, U.K.) 187
- Soybean lipoxygenase catalysed oxygenation of unsaturated fatty acid encapsulated in cyclodextrin
N. Jyothirmayi and C.S. Ramadoss (India) 193
- Reactive properties of the organic solvent-soluble lipase
W. Tsuzuki and T. Suzuki (Japan) 201
- Glycero-3-phosphate is a precursor of glucose but not of glycero-3-phosphocholine in rat liver
W. Thompson and H. Belina (Canada) 207
- Rat liver and lung mitochondria do not incorporate radioactivity from glycerol-3-phosphate or CDP-choline into glycero-3-phosphocholine
R.A.W. Veldhuizen, W. Thompson and F. Poss-mayer (Canada) 211
- Report**
- Activation of hepatic lipase catalyzed phosphatidylcholine hydrolysis by apolipoprotein E
T. Thuren, P. Sisson and M. Waite (U.S.A.) 217
- Regular Papers**
- Effect of coconut oil on plasma apo A-I levels in WHHL and NZW rabbits
T.L. Carlson and B.A. Kottke (U.S.A.) 221
- Native low-density lipoproteins stimulate leukotriene B₄ production by human monocyte-derived macrophages
F. Nigon, M. Rouis, S.J. Foster and M.J. Chapman (France, U.K.) 230
- Phospholipid composition of rat megakaryocytes and its rearrangement in platelets
M. Masuda, I. Kudo, M. Naito, H. Mizushima and K. Inoue (Japan) 235
- Membrane fatty acid composition and endothelial cell functional properties
R.C.R.M. Vossen, M.C.E. Van Dam-Mieras, P.J.M.R. Lemmens, G. Hornstra and R.F.A. Zwaal (The Netherlands) 243
- Ontogeny of surfactant apoprotein D, SP-D, in the rat lung
Y. Ogasawara, Y. Kuroki, M. Shiratori, H. Shimizu, K. Miyamura and T. Akino (Japan) 252
- Effects of hyperlipidemias in hamsters on lipid transfer protein activity and unidirectional cholesteryl ester transfer in plasma
D.W. Quig, C.M. Arbeeny and D.B. Zilversmit (U.S.A.) 257
- Effect of hyper- and hypothyroidism on phospholipid fatty acid composition and phospholipases activity in sarcolemma of rabbit cardiac muscle
G. Szymańska, S. Pikula and J. Zborowski (Poland) 265
- Liposome formation from synthetic polyhydroxyl lipids
T.P. Assadullahi, R.C. Hider and A.J. McAuley (U.K.) 271
- Changes in the content and intracellular distribution of coenzyme Q homologs in rabbit liver during growth
T. Matsura, K. Yamada and T. Kawasaki (Japan) 277
- The effect of pancreatic procolipase and colipase on pancreatic lipase activation
A. Larsson and C. Erlanson-Albertsson (Sweden) 283
- Unstable amplification of the chromosomal gene for 3-hydroxy-3-methylglutaryl coenzyme A reductase in compactin-resistant CR200 cells
K. Hasumi, S. Naganuma, Y. Sato and A. Endo (Japan) 289
- Effect of fish oil and coconut oil diet on the LDL receptor activity of rat liver plasma membranes
A. Tripodi, P. Loria, M.A. Dilengite and N. Carulli (Italy) 298
- Immunochemical and biochemical studies of fatty acid oxidation in fibroblasts of Zellweger and X-linked adrenoleukodystrophy patients
F.A.G. Reubsæet, J.H. Veerkamp, M.L.P. Brückwilder, J.M.F. Trijbels, T. Hashimoto and L.A.H. Monnens (The Netherlands, Japan) 305
- Report**
- Insulin-like effect of vanadate on malic enzyme and glucose-6-phosphate dehydrogenase activities in streptozotocin-induced diabetic rat liver
S. Pugazhenth, R.L. Khandelwal and J.F. Angel (Canada) 310
- Author Index** 315

